

FIG. 1
(PRIOR ART)

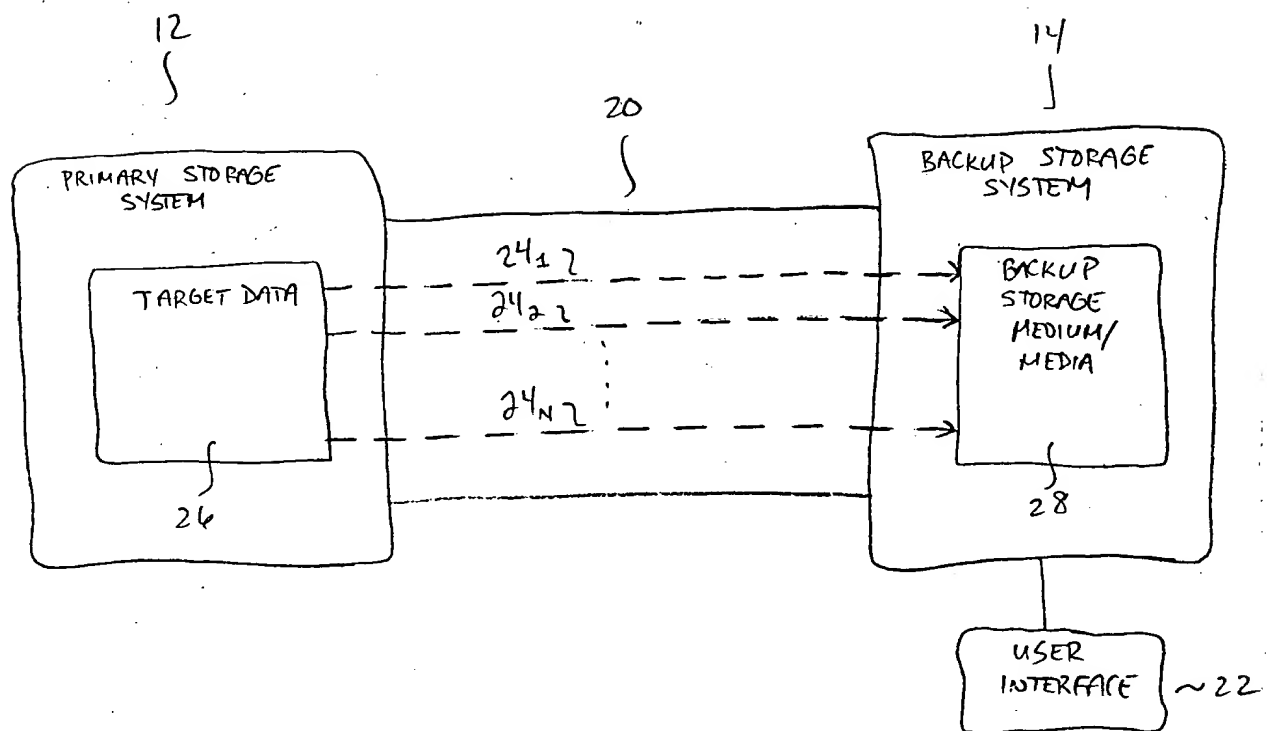


FIG. 2
(PRIOR ART)

09747179-100100

09747179.123400

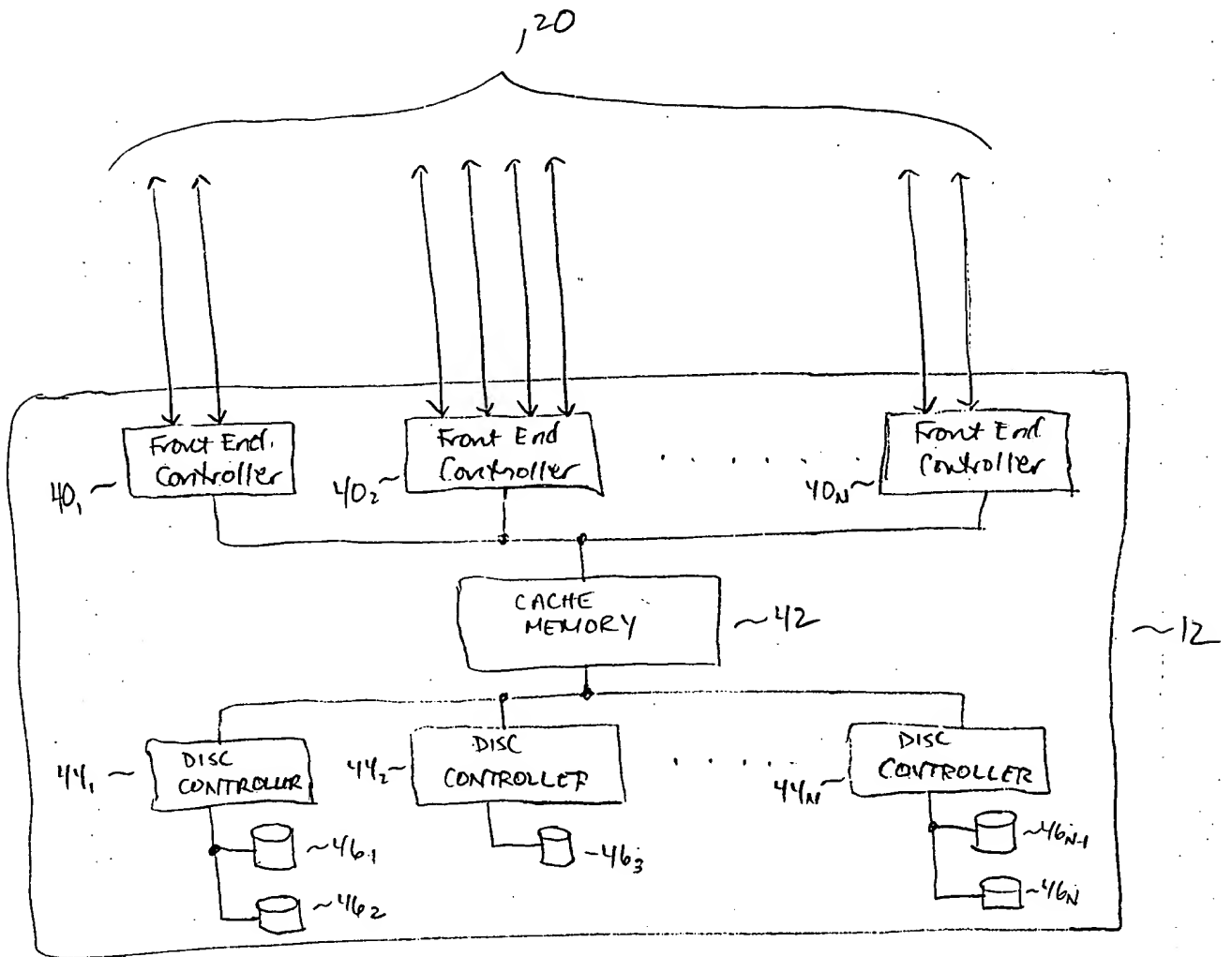


FIG. 3
(PRIOR ART)

09747129-162400

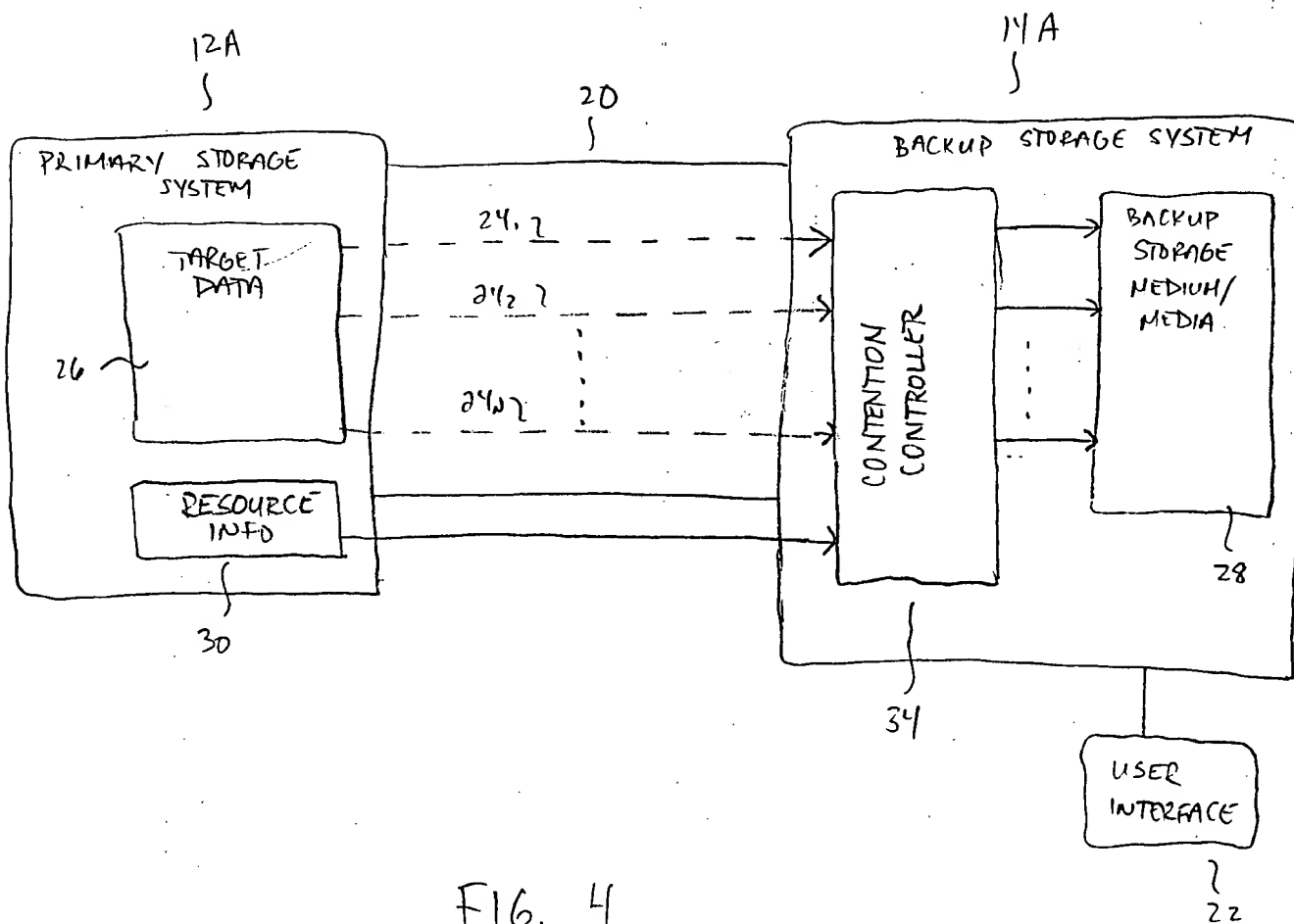


FIG. 4

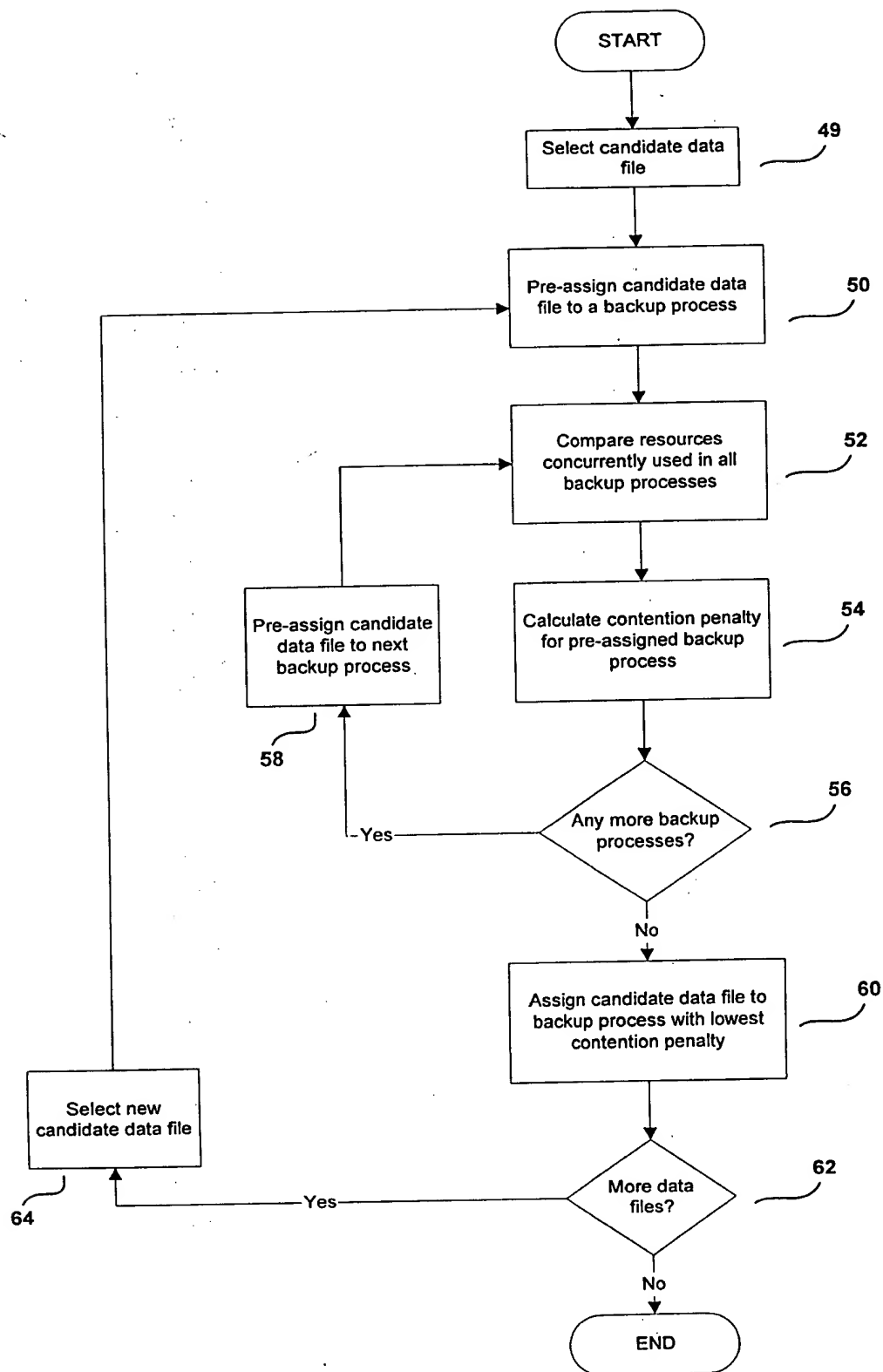


FIG. 5

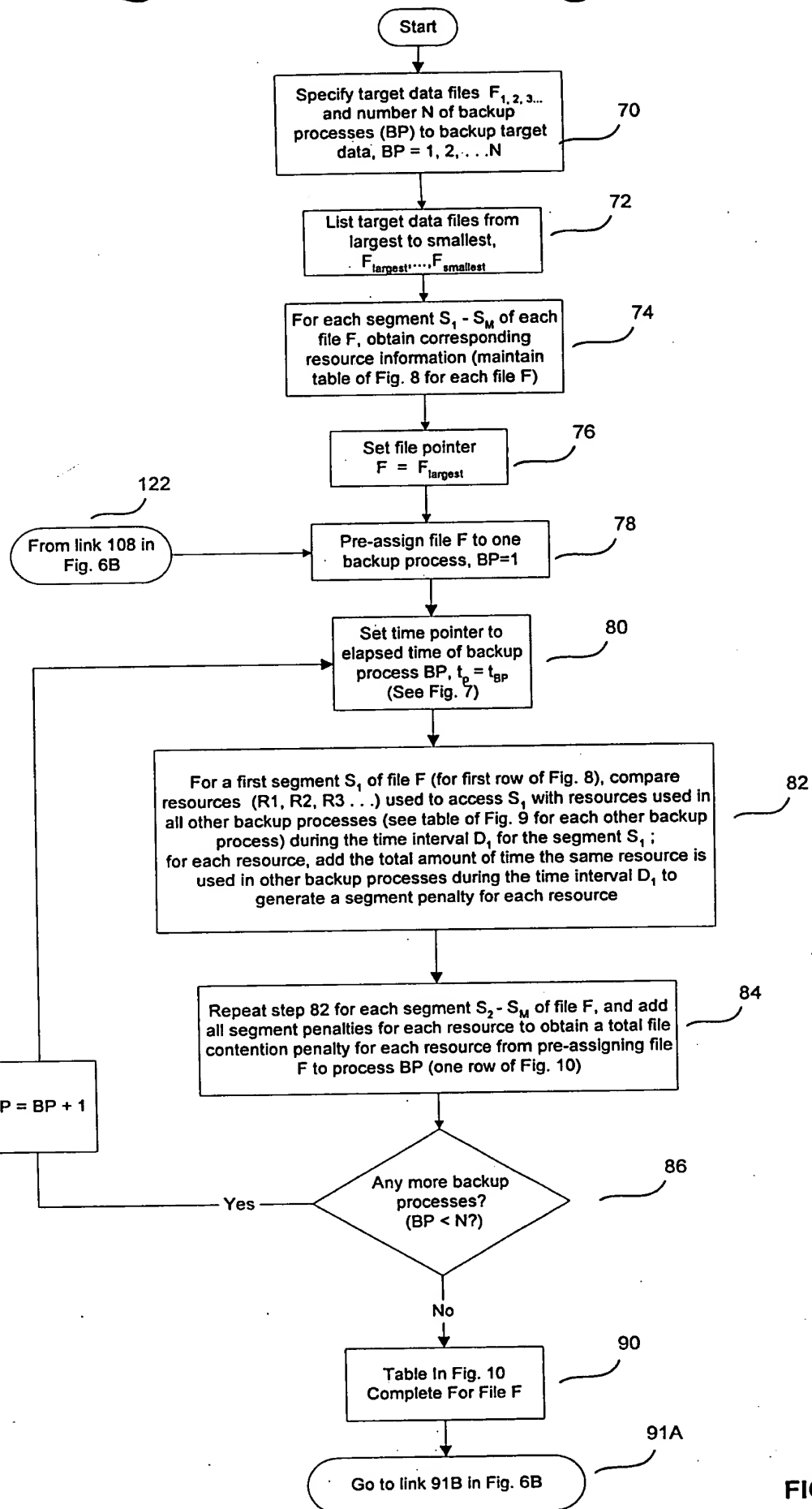
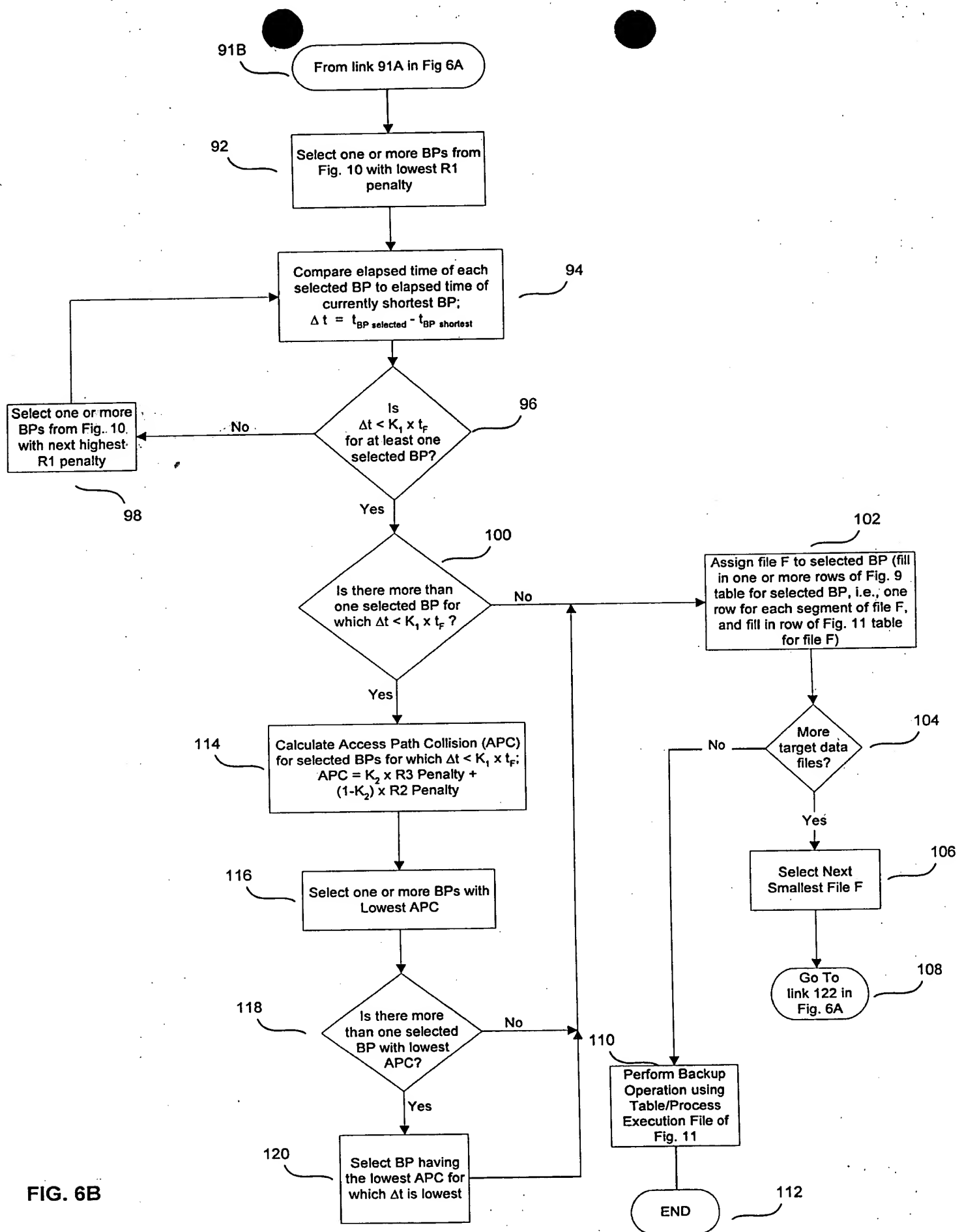
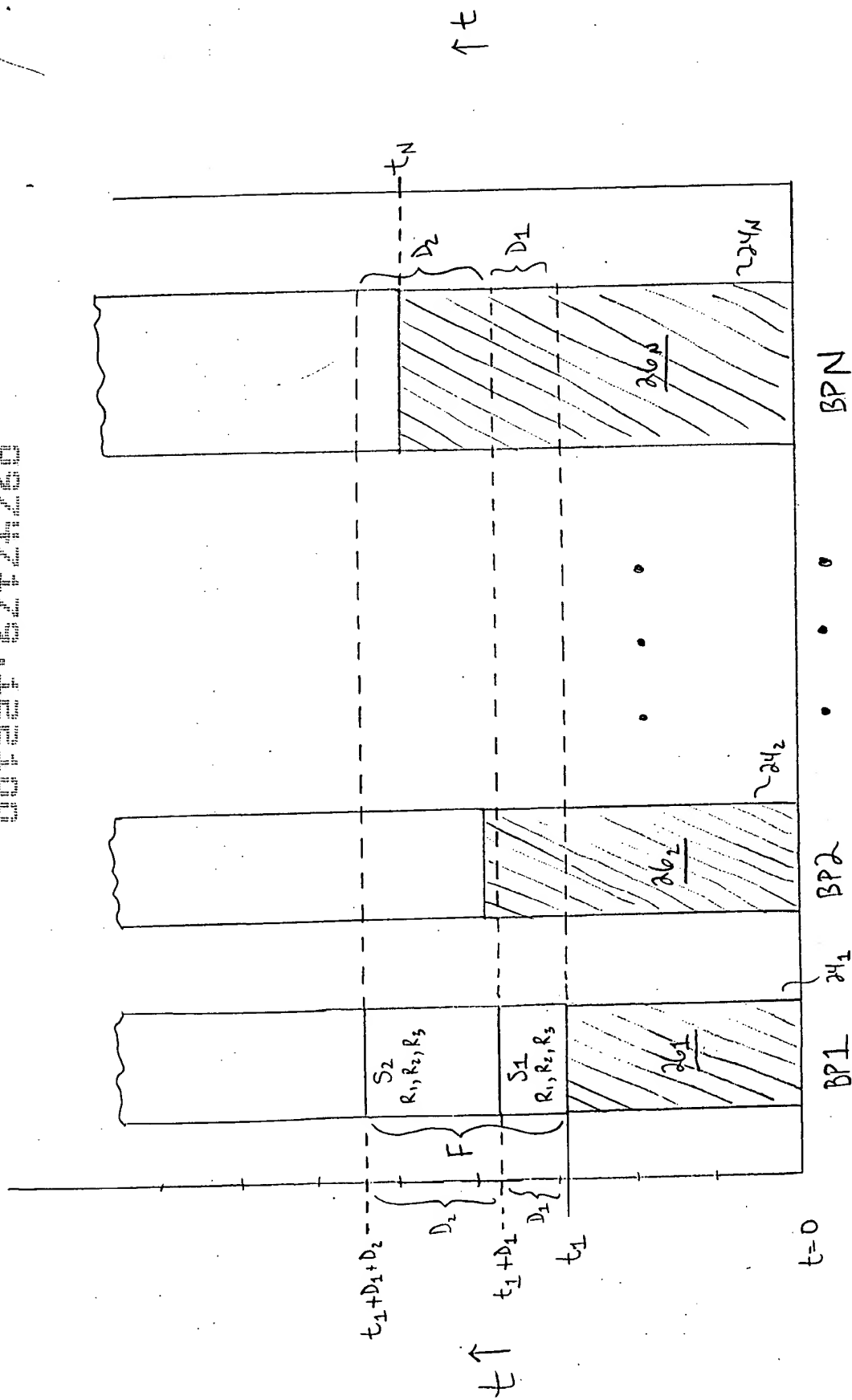


FIG. 6A

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BACKUP PROCESSES (BP)

FIG. 7

Segment/ Duration	Spindle (R1) ID	DISC CONTROLLER (R2) ID	FRONT END CONTROLLER (R3) ID
S1/10ms	2	3	1
S2/20ms	6	2	2
S3/D3			
S4/D4			
⋮			
S _N /D _N			

FIG. 8

09747179-122100

TIME t (ms)	SPINDLE ID (R1)	DISC CONTROLLER ID (R2)	FRONT END ID (R3)
0			
D_1			
$D_1 + D_2$			
$D_1 + D_2 + D_3$			
.			
.			
.			
$\dots D_{M-2} + D_{M-1} + D_M$			

FIG. 9

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BACKUP PROCESS (BP)	TOTAL SPINDLE (R1) PENALTY	TOTAL DA (R2) PENALTY	TOTAL FRONT END (R3) PENALTY
1			
2			
3			
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
⋮	⋮	⋮	⋮
N			

FIG. 10

